

POOL FENCE TEST NO: AZT0067.14

# POOL FENCE TEST REPORT

Client: Glass Hardware Australia



**As per 'AS1926.1 Set 2012- Swimming Pool Safety Standards Set- Section 3.6- Durability of a Gate Unit' only.**

**Azuma Design Pty Ltd**

**Address:** 52 Justin Street Smithfield NSW 2164 Australia PH: 61(02)9604 0255

POOL FENCE TEST NO: AZT0067.14

## **POOL FENCE TEST REPORT**

**Model No. / Name:** Polaris Soft Close Hinge aluminium pool gate.

**Customer:** Glass Hardware Australia

**Address:** 96 Queens Road Five Dock NSW 2046

**Date of Test:** 1/04/14 to 11/04/14

### **Dimensions:**

#### ***Gate***

**Material-** Aluminium

**Overall -** 950mm W x 1200mm H

**Vertical pickets -** Ø16mm round hollow tube **Pitch-** 91mm

**Horizontals -** 38mm x 25mm rectangular hollow tube

**Test sample complies with requirements of section 2.4?** Yes

**Weight of gate:** 4.3 kg

**Added weight:** 1.865 kg (Added to centre of gate panel)

**Total gate weight:** 6.165 kg

#### ***Posts***

**Material-** Aluminium

**Dimensions -** 50mm square hollow tube x 1680mm in height

**Fixing -** Posts were core drilled and cemented into portable base. This base was secured into position to the Azuma pool gate cycle test rig.

**Lock -** Latch release mechanism 1500mm from ground, fully functional and lockable by key? Yes

**Hinges –** Self-closing from all angles? Yes

**Identification-** Lock- D&D Technologies MagnaLatch Hinge- Polaris Soft Close Hinge

**Note:** Please see photos for further detail.

**Aim:** To test the pool fence sample according to 'AS1926.1 Set 2012- Swimming Pool Safety Standards Set- Section 3.6- Durability of a Gate Unit' only.

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### **Hardware**



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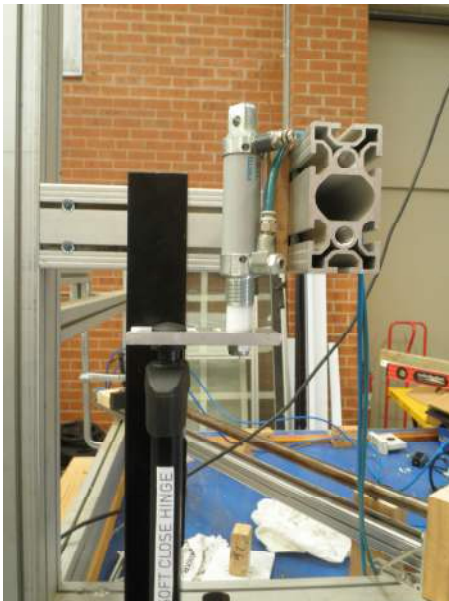
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### **Section 3.6- DURABILITY OF A GATE UNIT- As per Appendix F of AS1926.1**

#### **Test description:**

- (a) Install the gate unit in accordance with the manufacturer's instructions on a site which simulates the in situ condition with the gate posts securely anchored into the ground.
- (b) Ensure that the gate and its latch comply with Clause 2.4.
- (c) Measure and record the force (to the nearest 5 N) required to release the latch.
- (d) Release the latch and open the gate to the 90-degree position.
- (e) Release the gate and allow it to close under the action of the self-closing device.
- (f) Repeat Steps (d) and (e) for a total of 10 000 operations or until the latch fails to operate, whichever occurs first. The latch shall not be lubricated or adjusted during this test.
- (g) Inspect the gate to see whether it still complies with Clause 2.4.
- (h) Measure and record the force (to the nearest 5 N) required to release the latch.
- (i) Inspect the gate, including the hinges and latch together with the gate posts, for any damage which would affect the ability of the gate to comply with the requirements of Section 2.



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**A Z U M A**  
Design

NATA Accredited Laboratory No: 15147



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**Customer:** Glass Hardware Australia

**Address:** 96 Queens Road Five Dock NSW 2046

**Date of Test:** 1/04/14 to 11/04/14

**Test requirement:**

- (a) Shall be capable of complying with the requirements of Clauses 2.4.1 to 2.4.3 after 10,000 operations; and
- (b) The force required to release the latch shall not be greater than 50 N both before and after the test.

**Test result:**

- (a) Number of operations of the gate completed: 10,339
- (b) Does the gate still comply with Clause 2.4 after test complete? Yes
- (c) The force required to release the latch at the start of the test: 11N
- (d) The force required to release the latch at the end of the test: 11N
- (e) Any damage to the gate, hinges, latching device or gate posts at end of the test? Nil

**Observations:** Nil

**Result:** PASS

**Conclusion:** From the results achieved, it is evident that the sample satisfied the requirements as per 'AS1926.1 Set 2012- Swimming Pool Safety Standards Set- Section 3.6- Durability of a Gate Unit'.

**Tested by:** Nathan Olsen

**Signatory Name:** Nathan Olsen

**Signatory Signature:** 

**Date:** 30/04/14

END OF REPORT

**Azuma Design Pty Ltd**

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